

Comparisons of Job Characteristics

Focus Occupation: [Electrical and Electronics Repairers, Commercial and Industrial Equipment \(49-2094\)](#)

Associated Occupation: [Telecommunications Equipment Installers and Repairers, Except Line Installers \(49-2022\)](#)

[Compare Knowledge](#)

[Compare Skills](#)

[Compare Abilities](#)

[Compare Detailed Work Activities](#)

[Compare Tools and Technologies](#)

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

Knowledge

Similarity of Focus Occupation to Associated Occupation: 68

Focus Occupation: Electrical and Electronics Repairers, Commercial and Industrial Equipment (49-2094)

Associated Occupation: Telecommunications Equipment Installers and Repairers, Except Line Installers (49-2022)

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation
Telecommunications	3.9	19.3	6.9	<< Extensive education and/or training may be required
Computers and Electronics	8.4	15.4	17.5	> Current knowledge level is likely sufficient
Mechanical	6.8	12.4	16.4	>> Current knowledge level is likely more than sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Skills

Similarity of Focus Occupation to Associated Occupation: 86

Focus Occupation: Electrical and Electronics Repairers, Commercial and Industrial Equipment (49-2094)

Associated Occupation: Telecommunications Equipment Installers and Repairers, Except Line Installers (49-2022)

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation
Troubleshooting	4.5	11.8	12.0	0 Current skill level may be sufficient
Quality Control Analysis	5.9	11.5	13.3	> Skill level is likely sufficient
Operation Monitoring	6.6	11.4	12.6	> Skill level is likely sufficient
Repairing	3.4	10.6	13.3	> Skill level is likely sufficient
Equipment Maintenance	3.5	10.3	11.1	0 Current skill level may be sufficient
Operation and Control	5.4	10.0	9.7	0 Current skill level may be sufficient
Equipment Selection	3.3	9.2	10.5	> Skill level is likely sufficient
Installation	1.7	7.7	9.3	> Skill level is likely sufficient
Programming	2.2	5.2	4.8	0 Current skill level may be sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Abilities		Similarity of Focus Occupation to Associated Occupation: 83			
Focus Occupation: Electrical and Electronics Repairers, Commercial and Industrial Equipment (49-2094) Associated Occupation: Telecommunications Equipment Installers and Repairers, Except Line Installers (49-2022)					
Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Visual Color Discrimination	6.4	12.9	10.6	<	Some improvement in abilities may be required
Finger Dexterity	7.6	12.0	12.9	0	Current ability level may be sufficient
Manual Dexterity	6.5	11.4	11.2	0	Current ability level may be sufficient
Visualization	7.5	11.0	11.0	0	Current ability level may be sufficient
Gross Body Equilibrium	3.2	8.6	6.2	<<	Extensive improvement in abilities may be required
Gross Body Coordination	3.9	8.3	6.0	<<	Extensive improvement in abilities may be required
Glare Sensitivity	2.6	6.1	5.1	<	Some improvement in abilities may be required
Night Vision	2.1	5.9	3.8	<<	Extensive improvement in abilities may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Activities that Both Occupations Have in Common		Similarity of Focus Occupation to Associated Occupation: 91
Focus Occupation: Electrical and Electronics Repairers, Commercial and Industrial Equipment (49-2094) Associated Occupation: Telecommunications Equipment Installers and Repairers, Except Line Installers (49-2022)		
Work Activities	Exclusivity of Activity	
Analyze operation of malfunctioning electrical or electronic equipment	68	
Calibrate or adjust electronic equipment or instruments to specification	67	
Communicate technical information	4	
Conduct sequential tests to locate electronic malfunction	77	
Determine installation, service, or repair needed	58	
Distinguish colors	44	
Fabricate, assemble, or disassemble manufactured products by hand	11	
Install electronic equipment, components, or systems	62	
Install electronic power, communication, control, or security equipment or systems	76	
Install/connect electrical equipment to power circuit	57	
Instruct customers in product installation, use, or repair	82	
Modify electrical or electronic equipment or products	74	
Obtain information from clients, customers, or patients	40	

Perform safety inspections in industrial, manufacturing or repair setting	32
Plan layout of electrical/electronic equipment installation	89
Plan or organize work	51
Read blueprints	10
Read schematics	34
Read technical drawings	7
Read work order, instructions, formulas, or processing charts	9
Repair electronic components, equipment, or systems	74
Repair or replace electrical wiring, circuits, fixtures, or equipment	49
Replace electronic components	63
Solder electrical or electronic connections or components	55
Test electrical/electronic wiring, equipment, systems or fixtures	54
Test electronic or electrical circuit connections	66
Understand detailed electronic design specifications	70
Understand service or repair manuals	40
Understand technical information for electronic repair work	76
Understand technical operating, service or repair manuals	6
Use computers to enter, access or retrieve data	3
Use electrical or electronic test devices or equipment	40
Use hand or power tools	2
Use interpersonal communication techniques	10
Use precision tools in electronics repair	71
Use soldering equipment	44
Use voltmeter, ammeter, or ohmmeter	52

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Tools and Technologies that Both Occupations Have in Common

Similarity of Focus
Occupation to Associated
Occupation: n/a

Focus Occupation: Electrical and Electronics Repairers, Commercial and Industrial Equipment (49-2094)

Associated Occupation: Telecommunications Equipment Installers and Repairers, Except Line Installers (49-2022)

Tools and Technologies	Exclusivity
Tools and technology data is unavailable for one or both occupations.	

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.